

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/050857

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C10G65/12 C10G45/58

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C10G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, API Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 272 729 A (SHELL INT RESEARCH) 29 June 1988 (1988-06-29) cited in the application	1-10
Y	figure IV column 1, lines 9-12 column 2, lines 36-44 column 2, line 50 - column 3, line 10 column 6, lines 46-53 column 7, lines 27-42 column 10, lines 43-46 column 11, lines 5-25 column 11, line 58 - column 12, line 6 ----- -/--	1-10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

10 May 2005

Date of mailing of the international search report

19/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer:

Harf, J

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/050857

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 876 522 A (CAMPBELL ET AL) 8 April 1975 (1975-04-08) figure 2; example 1 column 1, lines 46-66 column 4, lines 48-56 column 5, lines 1-4, 37-47	1-10
Y	WO 02/50213 A (POLDER KEVIN JOHN ANTHONY ;GEUKEMA ARJEN PETER (NL); SHELL INT RES) 27 June 2002 (2002-06-27) cited in the application claim 1; figures 1,2; examples 1,2 page 7, lines 10-13, 21-26 page 8, lines 16-25 page 13, line 24 - page 14, line 11	1-10
A	US 4 605 488 A (GARWOOD WILLIAM E ET AL) 12 August 1986 (1986-08-12) figure 1 column 4, lines 43-50 column 5, lines 14-23 column 11, line 24 - column 12, line 6	1-10
A	WO 97/18278 A (MOBIL OIL CORP) 22 May 1997 (1997-05-22) cited in the application claim 1; figures 1,2 page 7, lines 2-13 page 15, line 23 - page 16, line 6	1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/050857

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0272729	A	29-06-1988	AR 246551 A1	31-08-1994
			AT 56742 T	15-10-1990
			AU 598884 B2	05-07-1990
			AU 8200087 A	16-06-1988
			BR 8706677 A	19-07-1988
			CA 1293945 C	07-01-1992
			CN 87107355 A , B	22-06-1988
			DE 3765097 D1	25-10-1990
			DK 643187 A	11-06-1988
			EP 0272729 A1	29-06-1988
			FI 875414 A , B ,	11-06-1988
			GR 3001032 T3	20-01-1992
			IN 170406 A1	21-03-1992
			JP 63161073 A	04-07-1988
			KR 9614921 B1	21-10-1996
			MX 172340 B	14-12-1993
			NO 875134 A , B ,	13-06-1988
			SU 1676456 A3	07-09-1991
			US 5122257 A	16-06-1992
			ZA 8709012 A	27-05-1988
US 3876522	A	08-04-1975	NONE	
WO 0250213	A	27-06-2002	AU 4085902 A	01-07-2002
			CA 2432034 A1	27-06-2002
			CN 1481431 A	10-03-2004
			CZ 20031691 A3	12-11-2003
			WO 0250213 A2	27-06-2002
			EP 1352040 A2	15-10-2003
			JP 2004516360 T	03-06-2004
			PL 363689 A1	29-11-2004
			US 2004055931 A1	25-03-2004
US 4605488	A	12-08-1986	AU 571684 B2	21-04-1988
			AU 4176885 A	07-11-1985
			BR 8505797 A	09-06-1987
			CA 1252746 A1	18-04-1989
			DE 3587895 D1	08-09-1994
			DE 3587895 T2	01-12-1994
			EP 0161833 A2	21-11-1985
			ES 8702478 A1	16-03-1987
			JP 1965450 C	25-08-1995
			JP 6092588 B	16-11-1994
			JP 60240793 A	29-11-1985
			US 4810357 A	07-03-1989
			ZA 8503184 A	30-12-1986
WO 9718278	A	22-05-1997	AU 715730 B2	10-02-2000
			AU 6907196 A	05-06-1997
			CA 2230760 A1	22-05-1997
			EP 0863963 A1	16-09-1998
			JP 2002502436 T	22-01-2002
			WO 9718278 A1	22-05-1997